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NEWS	7	FEB	11	WTEXTILES reloaded and enhanced
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NEWS	13	FEB	23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	14	FEB	25	USGENE enhanced with patent family and legal status display data from INPADOCDB
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NEWS	17	MAR	11	ESBIOBASE reloaded and enhanced
NEWS	18	MAR	20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	19	MAR	23	CA/CAplus enhanced with more than 250,000 patent equivalents from China
NEWS	20	MAR	30	IMSPATENTS reloaded and enhanced
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NEWS	22	APR	07	STN is raising the limits on saved answers
NEWS	23	APR	24	CA/CAplus now has more comprehensive patent assignee information
NEWS	24	APR	26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	25	APR	28	CAS patent authority coverage expanded
NEWS	26	APR	28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	27	APR	28	Limits doubled for structure searching in CAS REGISTRY
NEWS	28	MAY	0.8	STN Express, Version 8.4, now available
NEWS	29	MAY	11	STN on the Web enhanced

NEWS 30 MAY 11 BEILSTEIN substance information now available on STN Easy

NEWS 31 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format

NEWS 32 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal status data

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chain nodes :

1 11

ring nodes :

2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

chain bonds :

1-2 1-14 3-7 3-11

ring bonds :

2-3 2-10 3-10 4-5 4-9 5-6 6-7 7-8 8-9 12-13 12-17 13-14 14-15 15-16 16-17

exact/norm bonds :

2-3 2-10 3-10 12-13 12-17 13-14 14-15 15-16 16-17

exact bonds :

1-2 1-14 3-7 3-11

normalized bonds : 4-5 4-9 5-6 6-7 7-8 8-9

# Match level :

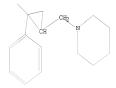
1:CLASS 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom

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100.0% PROCESSED 2622 ITERATIONS SEARCH TIME: 00.00.01 346 ANSWERS

L2 346 SEA SSS FUL L1

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22 L2

=> s 13 and pd<20030500 23788219 PD<20030500 (PD<20030500) L4 15 L3 AND PD<20030500

=> d 14 1-15 abs ibib hitstr

ANSWER 1 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
In this study, using the new sigmal/2 (σ1/2) compound MR200, its parent drug haloperidol and the σ ligand 1,3-di-o-tolylguanidine (DTG), the authors have investigated the role of striatal σ receptors in the control of basal dopamine (DA) outflow, by coupling in vitro binding expts. and in vivo microdialysis in the striatum of halothane-anesthetized rats. MR200 with respect to haloperidol, exhibits high affinity for σ1 (1.5 nM) and σ2 (21.9 nM) receptors, but only negligible affinity for DA receptors. Compared to DTG, MR200 has similar selectivity across neurotransmitter systems, and 46 times higher

affinity for ol receptors. Intrastriatal application of MR200 at 10, but not 0.1 or 1  $\mu M$ , elicited a pronounced decrease in striatal DA release (-45% of control values). This inhibitory effect was preceded by a transient increase in DA release (+50% over baseline) after 100  $\mu M$  MR200 administration. DTG at 100, but not 10  $\mu M$ , significantly reduced DA release (-40%). Haloperidol, while increasing DA release at 1  $\mu M$ , induced a delayed decrease in DA release after 10  $\mu M$  application. Finally, haloperidol (10  $\mu M$ ) did not modify the inhibitory effect of 10  $\mu M$  MR200. These results show that striatal  $\sigma$  receptors control

striatal DA release in resting conditions. ACCESSION NUMBER: 2003:828834 CAPLUS

DOCUMENT NUMBER: 140:157786

TITLE: Intrastriatal administration of sigma ligands inhibits

basal dopamine release in vivo

AUTHOR(S): Moison, Delphine; De Deurwaerdere, Philippe; Cagnotto, Alfredo; Marrazzo, Agostino; Prezzavento, Orazio;

Alfredo; Marrazzo, Agostino; Prezzavento, Orazio; Ronsisvalle, Giuseppe; Mennini, Tiziana; Spampinato,

Umberto

CORPORATE SOURCE: Unite Mixte de Recherche-Centre National de la

Recherche Scientifique, Laboratoire de

Neuropsychobiologie des Desadaptations, Universite Victor Segalen Bordeaux 2, Bordeaux, 5541, Fr.

SOURCE: Neuropharmacology (2003), 45(7), 945-953

CODEN: NEPHBW; ISSN: 0028-3908

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

IT 654641-67-5, MR 200 oxalate

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(intrastriatal administration of sigma ligands inhibits basal dopamine

(intrastriatal administration of sigma ligands inhibits basal dopamine release in vivo in rats)

654641-67-5 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[[4-(4-chlorophenyl)-4-hydroxy-1-piperidinyl]methyl]-1-phenyl-, methyl ester, (IR, 2S)-rel-(+)-, ethanedioate (I:1) (salt) (9CI) (CA INDEX NAME)

CM :

RN

CRN 403789-28-6

CMF C23 H26 C1 N O3

Rotation (+). Absolute stereochemistry unknown.

CM 2

CRN 144-62-7 CMF C2 H2 O4



AB

REFERENCE COUNT:

THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

40 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN L4

A three-dimensional mol. model of the transmembrane domain of the κ-opioid receptor in a phospholipid bilayer is presented. The endogenous ligand, dynorphin A (1), and synthetic ligands, benzomorphan-based compds. (2a, 2b), are docked into the model. We report the results of a 500 ps mol. dynamics simulation of these protein-ligand complexes in a simplified bilayer of 97 mols. of the lipid dipalmitoylphosphatidylcholine and 26 water mols. per lipid. The simulations explore the stability and conformational dynamics of the model in a phospholipid bilayer; we also investigate the interactions of the protein with its ligands. Mol. simulation of the receptor-ligand complexes, endogenous and synthetic, has confirmed the existence of different binding domains for peptide and non-peptide ligands. Similarities are found in the dynamics and binding mode of all conformations of the synthetic ligands studied. The protonated hydrogen of the benzomorphan is always involved in an H-bond with Asp138, and other potentially stabilizing receptor-ligand interactions found involve the hydroxyl substituent on the benzomorphan, which may form an H-bond with Tyr139 or Gly190 according to the different mols. The ester group of 2a may therefore form an H-bond with Ile316, while the carbonyl group of 2b forms an H-bond with Gln115 and Tyr312. The remaining part of the ligand is located in the extracellular portion of the pocket. It is surrounded by hydrophobic residues in the transmembrane region (TM), and it interacts with different sets of residues. The results obtained are in general agreement with site-directed mutagenesis data that have highlighted the importance of all TM regions for synthetic-ligand affinity with the κ-opioid receptor.

ACCESSION NUMBER: 2002:737864 CAPLUS

DOCUMENT NUMBER: 137:381449

TITLE: κ-Opioid Receptor Model in a Phospholipid Bilayer: Molecular Dynamics Simulation

AUTHOR(S): Iadanza, Manuela; Hoeltje, Monika; Ronsisvalle,

Giuseppe: Hoeltie, Hans-Dieter CORPORATE SOURCE: Department of Pharmaceutical Sciences, University of

Catania, Catania, 95125, Italy

Journal of Medicinal Chemistry (2002),

SOURCE: 45(22), 4838-4846

CODEN: JMCMAR; ISSN: 0022-2623

American Chemical Society

PUBLISHER: DOCUMENT TYPE: Journal

LANGUAGE: English ΙT 476337-34-5 476337-35-6

RL: BSU (Biological study, unclassified); BIOL (Biological study) (ligand, docking; mol. dynamics simulation of a κ-opioid receptor model in a phospholipid bilaver)

RN 476337-34-5 CAPLUS

2,6-Methano-3-benzazocin-8-ol, 3-[[(1R,2S)-2-[(acetyloxy)methyl]-2phenylcyclopropyl]methyl]-1,2,3,4,5,6-hexahydro-6,11-dimethyl-, (6R, 11R) -rel- (CA INDEX NAME)

Relative stereochemistry.

RM 476337-35-6 CAPLUS

CN Cyclopropanecarboxamide, N, 1-diphenyl-2-[[(6R, 11R)-1, 4, 5, 6-tetrahydro-8hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (IR, 2S)-rel- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

New racemic and chiral Me 2-{[4-(4-chlorophenyl)-4-hydroxypiperidin-1-AB yl]methyl}-1-phenylcyclopropanecarboxylate derivs. were synthesized in order to obtain sigma ligands with increased affinity and selectivity compared to (+)-MPCB and haloperidol. The cis-(+)-7 racemic mixture showed a better binding affinity and selectivity than the  $(\pm)-8$  trans isomers. Between the two cis enantiomers, (+)-7, with configuration (IR,2S), showed a very high affinity and the best selectivity for ol. All compds. synthesized (7-9) showed a reduced or negligible affinity for opioid and dopaminergic D1 and D2 receptors. Nociceptive in vivo test confirms that (+±)-7 (namely MR200), such as non-selective antagonist haloperidol. increased the analgesic effect induced by the Kt opioid selective ligand U50,4881I and reversed the inhibiting effect of (+)-pentazocine on analgesia.

ACCESSION NUMBER: 2001:915611 CAPLUS

DOCUMENT NUMBER: 136:241509

TITLE:

AUTHOR(S):

Opioid and sigma receptor studies. New developments in

the design of selective sigma ligands

Ronsisvalle, Giuseppe; Marrazzo, Agostino;

Prezzavento, Orazio; Cagnotto, Alfredo; Mennini,

Tiziana; Parenti, Carmela; Scoto, Giovanna M. IUPAC Commission, Department of Pharmaceutical CORPORATE SOURCE:

Sciences, University of Catania, Catania, 95125, Italy

SOURCE:

Pure and Applied Chemistry (2001), 73(9), 1499-1509

CODEN: PACHAS; ISSN: 0033-4545

PUBLISHER: International Union of Pure and Applied Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

403789-27-5P 403789-28-6P 403789-29-7P

403789-30-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of σ-ligands with increased affinity and selectivity)

RN 403789-27-5 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[[4-(4-chlorophenyl)-4-hydroxy-1-piperidinyl]methyl]-1-phenyl-, methyl ester, (1R,2S)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 403789-28-6 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[[4-(4-chloropheny1)-4-hydroxy-1-piperidiny1]methy1]-1-pheny1-, methyl ester, (1R,2S)-re1-(+)- (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

RN 403789-29-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[[4-(4-chlorophenyl)-4-hydroxy-1-piperidinyl]methyl]-1-phenyl-, methyl ester, (1S,2R)-rel-(-)- (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

CN Cyclopropanecarboxylic acid, 2-[[4-(4-chlorophenyl)-4-hydroxy-1piperidinyl|methyl|-1-phenyl-, methyl ester, (1R, 2R)-rel- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

42 L4ANSWER 4 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN GI

AB In a previous study we found that substitutions of the (+)-cis-N-normetazocine nucleus of (+)-MPCB with 1-adamantanamine provide the compound (±)-I (Ad = 1-adamantyl) with high affinity and selectivity for  $\sigma$  receptors. Starting with this result, we have synthesized a new series of eight 1-phenyl-2-cyclopropylmethylamines structurally related to  $(\pm)$ -I (Ad = 1-adamantyl), and binding affinities with respect to  $\sigma1$ ,  $\sigma2$ , opioid and dopaminergic D2 receptors have been reported. All compds. showed a negligible opioid and dopaminergic affinity and high selectivity for o receptors. Modifications of the amino moiety and COOMe group of I provide compds. with different ol and  $\sigma^2$  binding affinity and selectivity. Moreover, we have also synthesized the resp. enantiomers of compds. (±)-I and (±)-II in order to evaluate the enantioselectivity for  $\sigma 1$  and  $\sigma 2$ receptors. The binding data showed that COOMe on the cyclopropane ring was more critical for enantioselectivity than the hydroxymethylenic group. In fact, the (-)-I enantiomer showed a preference for ol whereas (+)-I showed a preference for σ2.

ACCESSION NUMBER: 2001:516914 CAPLUS

DOCUMENT NUMBER: 135:288534

TITLE: Synthesis and pharmacological evaluation of potent and

enantioselective ol and o2 ligands

Marrazzo, Agostino; Prezzavento, Orazio; Pasquinucci, AUTHOR(S): Lorella; Vittorio, Franco; Ronsisvalle, Giuseppe

CORPORATE SOURCE: Department of Pharmaceutical Sciences, University of Catania, Catania, 95125, Italy SOURCE:

Farmaco (2001), 56(3), 181-189 CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Elsevier Science S.A. DOCUMENT TYPE:

Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:288534 IT 149343-50-0 199999-64-9 199999-67-2

199999-69-4 199999-71-8 364324-46-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(preparation and pharmacol. evaluation of potent and enantioselective  $\sigma 1$  and  $\sigma 2$  ligands)

RN 149343-50-0 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 199999-64-9 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(25,65,115)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester, (1R,25)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 199999-67-2 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 199999-69-4 CAPLUS

 $\begin{tabular}{ll} {\tt CN} & {\tt Cyclopropanecarboxylic\ acid,\ 1-phenyl-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-,\ methyl \\ & {\tt hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl}-,\ methyl \\ & {\tt hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(H)-yl]methyl}-,\ methyl \\ & {\tt$ 

ester (CA INDEX NAME)

### Absolute stereochemistry.

- 199999-71-8 CAPLUS RN
- CM Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-2-(((25,65,115)-1,4,5,6tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)yl]methyl]-, methyl ester (CA INDEX NAME)

#### Absolute stereochemistry.

- 364324-46-9 CAPLUS RN
- CM Cyclopropanecarboxylic acid, 2-[(3,4-dihydro-2(1H)-isoquinolinyl)methyl]-1phenyl-, methyl ester, (1R,2S)-rel- (CA INDEX NAME)

## Relative stereochemistry.

- THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- 22 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN L4
- AB Two novel series of  $\kappa$  opioid receptor agonist analogs of MPCB-GRRI and MPCB-RRI, hybrid ligands of MPCB
  - ((-)-cis-N-(2-pheny1-2-carbomethoxy)cyclopropylmethyl-N-normetazocine) and of the C-terminal fragments of dynorphin A(1-8), have been synthesized. The critical functional groups of the peptide fragments of hybrid compds. were maintained, and the binding affinities and selectivities for compds. 1-40 to  $\mu$ ,  $\delta$ , and  $\kappa$  opioid receptors were analyzed.
  - Compds. 15 and 16, MPCB-Gly-Leu-NH-(CH2) n-NH-C(:NH)-C4H9 (n = 5, 6), displayed high affinity and selectivity for  $\kappa$  opioid receptors

(Kis=6.7 and 5.3 nM, Kiµ/Kis=375 and 408, and Kiö/Kis=408 and 424, resp.). Since  $\kappa$  agonists may also cause psychotomimetic effects by interaction with  $\sigma$  sites, binding assays to  $\sigma l$  sites were performed where compds. 15 and 16 showed negligible affinity (Ki > 10 000). Compds. 15 and 16 were further characterized in vivo and showed potent antinociceptive activity in mouse abdominal constriction tests (ED50 = 0.88 and 1.1 mg/kg, resp.), fully prevented by nor-BNI. Thus, these novel analogs open an exciting avenue

for the design of peptidomimetics of dynorphin A(1-8). ACCESSION NUMBER: 2000:490061 CAPLUS

DOCUMENT NUMBER: 133:252708

TITLE: Nonpeptide Analogues of Dynorphin A(1-8): Design,

Synthesis, and Pharmacological Evaluation of

κ-Selective Agonists

AUTHOR(S): Ronsisvalle, Giuseppe; Pasquinucci, Lorella; Pittala,

Valeria; Marrazzo, Agostino; Prezzavento, Orazio; Di Toro, Rosanna; Falcucci, Barbara; Spampinato, Santi CORPORATE SOURCE: Department of Pharmaceutical Sciences, University of

Catania, Catania, 95125, Italy

SOURCE: Journal of Medicinal Chemistry (2000),

43(16), 2992-3004

CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:252708 IT 294624-70-7P 294624-71-8P 294624-72-9P

294624-73-0P 294624-90-1P 294624-91-2P 294624-92-3P 294624-93-4P 294625-27-7P 294625-28-8P 294625-29-9P 294625-30-2P

294625-31-3P 294625-32-4P 294625-33-5P

294625-34-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and binding affinity of  $\kappa$ -selective agonists)

RN 294624-70-7 CAPLUS CN L-Leucinamide, N-[[

L-Leucinamide, N-[[(15,2R)-1-phenyl-2-[[(2R,6R,11R)-1,45,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(3-aminopropyl)- (9CI) (CA INDEX NAME)

# Absolute stereochemistry.

RN 294624-71-8 CAPLUS

CN L-Leucinamide, N-[((18,2R)-1-phenyl-2-[((2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(4-aminobutyl)- (9CI) (CA INDEX NAME)

- RN 294624-72-9 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(5-aminopentyl)- (9CI) (CA INDEX NAME)

## Absolute stereochemistry.

- RN 294624-73-0 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(6-aminohexyl)- (9CI) (CA INDEX NAME)

PAGE 1-B

- \_ OH
- RN 294624-90-1 CAPLUS
- ${\tt CN-Cyclopropanecarboxamide, N-[(1S)-1-[[(3-aminopropyl)amino]carbonyl]-3-[(1S)-1-[[(3-aminopropyl)amino]carbonyl]-3-[(1S)-1-[(1S)-[(1$

methylbutyl]-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 294624-91-2 CAPLUS
- CN Cyclopropanecarboxamide, N-[(15)-1-[[(3-aminobutyl) amino]carbonyl]-3methylbutyl]-1-phenyl-2-[(12R,6R,11R)-1,4,5,6-tetrahydron-8-hydroxy-6,11dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 294624-92-3 CAPLUS
- CN Cyclopropanecarboxamide, N-{(15)-1-[(5-aminopentyl)amino|carbonyl]-3-methylbutyl]-1-phenyl-2-[(128,68,118)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (15,2R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 294624-93-4 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[[(6-aminohexyl)amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[[(2R,6R,1lR)-1,4,5,6-tetrahydro-8-hydroxy-6,1l-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 294625-27-7 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(3-aminopropyl)-,bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)
  - CM :
  - CRN 294624-70-7
  - CMF C36 H51 N5 O4

$$\begin{array}{c} \text{H}_2\text{N} \\ \text{(CH}_2)_3 \\ \text{i} - \text{Bu} \\ \end{array} \begin{array}{c} \text{H} \\ \text{N} \\ \text{H} \\ \text{N} \\ \text{O} \\ \text{H} \end{array} \begin{array}{c} \text{Me} \\ \text{R} \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{Me} \\ \text{N} \\ \text{$$

- CM 2
- CRN 76-05-1 CMF C2 H F3 O2
- F-C-CO<sub>2</sub>H
- RN 294625-28-8 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(4-aminobutyl)-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 294624-71-8 CMF C37 H53 N5 O4

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 294625-29-9 CAPLUS CN L-Leucinamide, N-[[

L-Leucinamide, N-[[(15,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(5-aminopentyl)-,bis(trifluoroacetate) (salt) (90I) (CA INDEX NAME)

CM

CRN 294624-72-9 CMF C38 H55 N5 O4

Absolute stereochemistry.

$$\begin{array}{c} H_2N \\ \text{(CH2)} \\ \text{$i$} \\ \text{-Bu} \\ \end{array} \\ \begin{array}{c} H_2N \\ \text{N} \\ \text{H} \\ \\ \text{N} \\ \text{Me} \\ \text{N} \\ \text{N$$

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 294625-30-2 CAPLUS

CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-(6-aminohexyl)-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 294624-73-0 CMF C39 H57 N5 O4

Absolute stereochemistry.

PAGE 1-B

\_\_ OH

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 294625-31-3 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[[(3-aminopropy1)amino]carbony1]-3methylbuty1]-1-phenyl-2-[((2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 294624-90-1 CMF C34 H48 N4 O3

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 294625-32-4 CAPLUS CN Cyclopropanecarboxa

Cyclopropanecarboxamide, N-[(1S)-1-[[(4-aminobuty1)amino]carbony1]-3-methy1buty1]-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1]methy1]-, (1S,2R)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM :

CRN 294624-91-2

CMF C35 H50 N4 O3

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 294625-33-5 CAPLUS
CN Cyclopropanecarboxamide, N

 $\label{eq:cyclopropanearboxamide, N-[(1S)-1-[[(5-aminopentyl)amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[((2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)-, 2,2-trifluoroacetate (1:2) (CA INDEX NAME)$ 

CM 1

CRN 294624-92-3 CMF C36 H52 N4 O3

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 294625-34-6 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[((6-aminohexyl)amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[((2R, 6R, 11R)-1, 4, 5, 6-tetrahydro-8-hydroxy-6, 11-dimethyl-2, 6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S, 2R)-, 2, 2, 2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 294624-93-4 CMF C37 H54 N4 O3 Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

294624-74-1P 294624-75-2P 294624-76-3P 294624-77-4P 294624-78-5P 294624-79-6P 294624-80-9P 294624-81-0P 294624-82-1P 294624-83-2P 294624-84-3P 294624-85-4P 294624-86-5P 294624-87-6P 294624-88-7P 294624-89-8P 294624-94-5P 294624-95-6P 294624-96-7P 294624-97-8P 294624-98-9P 294624-99-0P 294625-00-6P 294625-01-7P 294625-02-8P 294625-03-9P 294625-04-0P 294625-05-1P 294625-06-2P 294625-07-3P 294625-08-4P 294625-09-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and binding affinity of  $\kappa$ -selective agonists) 294624-74-1 CAPLUS

RN

CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)yl]methyl]cyclopropyl]carbonyl]glycyl-N-[3-[(1-iminopropyl)amino]propyl]-(9CI) (CA INDEX NAME)

PAGE 1-B

\_ OH

- RN 294624-75-2 CAPLUS
- CN L-Leucinamide, N-[((18,2R)-1-phenyl-2-[((2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[4-[(1-iminopropyl)amino]butyl]-(9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

\_ OH

- RN 294624-76-3 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[5-[(1-iminopropyl)amino]pentyl]-(9CI) (CA INDEX NAME)

PAGE 1-B

\_ OH

RN 294624-77-4 CAPLUS

CN L-Leucinamide, N-[([15,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[6-[(1-iminopropyl)amino]hexyl]-(9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 294624-78-5 CAPLUS

N L-Leucinamide, N-[[(1S,2R)-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1]methy1]cyclopropy1]carbony1]glycy1-N-[3-[(1-iminobuty1)amino]propy1]-(9CI) (CA INDEX NAME)

- RN 294624-79-6 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[4-[(1-iminobutyl)amino]butyl]-(9CI) (CA INDEX NAME)

PAGE 1-A

- RN 294624-80-9 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[5-[(1-iminobutyl)amino]pentyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

- RN 294624-81-0 CAPLUS
- CN L-Leucinamide, N-[[(18,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)yl]methyl]cyclopropyl]carbonyl]glycyl-N-[6-[(1-iminobutyl)amino]hexyl](9CI) (CA INDEX NAME)

RN 294624-82-1 CAPLUS

CN L-Leucinamide, N-[[(1S,2R)-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)y1]methy1]cyclopropy1]carbony1]g1ycy1-N-[3-[(1-iminopenty1)amino]propy1]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

- RN 294624-83-2 CAPLUS
- N L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[4-[(1-iminopentyl)amino]butyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

- RN 294624-84-3 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[5-[(1-iminopentyl)amino]pentyl]-(9CI) (CA INDEX NAME)

PAGE 1-A

- RN 294624-85-4 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[6-[(1-iminopentyl)amino]hexyl]-(SCI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

- RN 294624-86-5 CAPLUS
- CN L-Leucinamide, N-[[(15,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[3-[(hydrazinoiminomethyl)amino]propyl]- (9CI) (CA INDEX NAME)

RN 294624-87-6 CAPLUS

CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)yl]methyl]cyclopropyl]carbonyl]glycyl-N-[4-[(hydrazinoiminomethyl)amino]butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

- RN 294624-88-7 CAPLUS
- L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,1l-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl[carbonyl]glycyl-N-[5-

[(hydrazinoiminomethyl)amino]pentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

- RN 294624-89-8 CAPLUS
- CN L-Leucinamide, N-[[(1S,2R)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]glycyl-N-[6-[(hydrazinoiminomethyl)amino|hexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

- RN 294624-94-5 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[3-[(1iminopropyl)amino]propyl]amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[[(2R, 6R, 11R)-1, 4, 5, 6-tetrahydro-8-hydroxy-6, 11-dimethyl-2, 6-methano-3benzazocin-3(2H)-yl]methyl]-, (1S, 2R)- (CA INDEX NAME)

#### Absolute stereochemistry.

- RN 294624-95-6 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[4-[(1iminopropy])amino]butyl]amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

- RN 294624-96-7 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[5-[(1iminopropyl)amino|pentyl]amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 294624-97-8 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[6-[(1iminopropyl)]amino]hexyl]amino]carbonyl]-3-methylbutyl]-1-phenyl-2[[(2R, 6R, 11R)-1, 4, 5, 6-tetrahydro-8-hydroxy-6, 11-dimethyl-2, 6-methano-3benzazocin-3(2H)-yl]methyl]-, (1S, 2R)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 294624-98-9 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[3-[(1-ininobuty1)amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propyl]amino]propylamino]pro

Absolute stereochemistry.

- RN 294624-99-0 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[4-[(1iminobuty1)amino]buty1]amino]carbony1]-3-methylbuty1]-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

RN 294625-00-6 CAPLUS

CN

CN

Cyclopropanecarboxamide, N-[(1S)-1-[[[5-[(1-iminobuty1)amino]penty1]amino]carbony1]-3-methylbuty1]-1-pheny1-2[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1]methy1]-, (1S,ZR)- (CA INDEX NAME)

Absolute stereochemistry.

RN 294625-01-7 CAPLUS

Cyclopropanecarboxamide, N-[(1S)-1-[[[6-[(1-iminobuty1)amino]hexyl]amino]carbonyl]-3-methylbuty1]-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 294625-02-8 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[[[3-[(1iminopenty1)amino]propy1]amino]carbony1]-3-methy1buty1]-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

RN 294625-03-9 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[[[4-[(1iminopenty])amino]butyl]amino]carbonyl]-3-methylbutyl]-1-phenyl-2-[[(2R,6R,1lR)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 294625-04-0 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[[[5-[(1iminopenty1)amino]penty1]amino]carbony1]-3-methylbuty1]-1-pheny1-2[((2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6-methano-3benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 294625-05-1 CAPLUS

CN Cyclopropanecarboxamide, N-[(1S)-1-[[[6-[(1-iminopenty1)amino]hexyl]amino]carbony1]-3-methylbuty1]-1-pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)- (CA INDEX NAME)

- RN 294625-06-2 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[3[(hydraziny1iminomethy1)amino]propy1]amino]carbony1]-3-methy1buty1]-1pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6methano-3-benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

## Absolute stereochemistry.

- RN 294625-07-3 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[4-
  - [(hydrazinyliminomethyl)amino]outyl]amino]carbonyl]-3-methylbutyl]-1phenyl-2-[[(2R,6R,1R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6methano-3-benzazocin-3(2H)-yl]methyl]-, (15,2R)- (CA INDEX NAME)

# Absolute stereochemistry.

- RN 294625-08-4 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[5[(hydraziny1iminomethy1)amino]penty1]amino]carbony1]-3-methy1buty1]-1pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6methano-3-benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

- RN 294625-09-5 CAPLUS
- CN Cyclopropanecarboxamide, N-[(1S)-1-[[[6[(hydraziny1iminomethy1)amino]hexyl]amino]carbony1]-3-methy1buty1]-1pheny1-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethy1-2,6methano-3-benzazocin-3(2H)-y1]methy1]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

IT 149343-48-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and binding affinity of κ-selective agonists)

- RN 149343-48-6 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-y1]methyl]-, (1S,2R)-(CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

- 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
- AB A series of 1-phenyl-2-cyclopropylmethylamines structurally related to (+)- and (-)-MPCB were synthesized and their binding affinities for ol, o2, opioid and dopamine (D2) receptors were evaluated.

Substitution of the cis-N-normetazocine with different aminic moieties provided compds, with high affinity and selectivity for o binding sites with respect to opioid and dopamine (D2) receptors. The observed increase in  $\sigma 2$  affinity as compared to the parent (+)-MPCB, supports the idea that the particular stereochem. of (+)-cis-N-normetazocine affects ol selectivity but does not affect ol affinity. The (±)-cis isomers of Me 2-[(1-adamantylamino)methyl]-1-phenylcyclopropane-1-carboxylate (I) displayed a higher affinity and selectivity for the σ1 and σ2 receptor subtypes compared to the (±)-trans isomers. Interestingly, the enantiomer (-)-cis I displayed a preference for 61 receptor subtype whereas the (+)-cis I did for 62. These results prompt the authors to synthesize compds. with modification of nitrogen and carboxyl groups. The compds. obtained showed high affinities and selectivity for  $\sigma$  sites. Moreover, modifications of carboxyl groups provided compds. with the highest affinities in the series. In particular, (±)-cis-{2-[(1-adamantylamino)methyl]-1phenylcyclopropyl}methyl acetate with reverse-type ester showed a Ki of 0.6 and 4.05 nM for G1 and G2 binding sites, resp.

ACCESSION NUMBER: 2000:454843 CAPLUS

DOCUMENT NUMBER: 133:202576

TITLE: Substituted 1-phenyl-2-cyclopropylmethylamines with high affinity and selectivity for sigma sites

Ronsisvalle, G.; Marrazzo, A.; Prezzavento, O.; AUTHOR(S): Pasquinucci, L.; Falcucci, B.; Di Toro, R.;

Spampinato, S.

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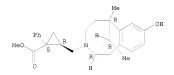
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(substituted phenylcyclopropylmethylamines with high affinity and selectivity for sigma sites in relation to structure)

RN 149343-50-0 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8hydroxv-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-vl]methyl]-, methyl ester, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 199999-67-2 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1]methy1]-, methy1 ester, (1S, 2R) - (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 290341-99-0P

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(substituted phenylcyclopropylmethylamines with high affinity and selectivity for sigma sites in relation to structure)

RN 290341-99-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[(3,4-dihydro-2(1H)-isoquinolinyl)methyl]-1phenvl-, methvl ester (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

REFERENCE COUNT:

AB

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

36 T.4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

The interaction of the  $\kappa$ -opioid receptor with anylacetamide and benzomorphan derivs. acting as agonists was modeled through pharmacophore-based and docking calcns. Potentially bioactive conformations of representative ligands (U-50,488 and its benzo-fused analogs 4 and 6 for arvlacetamides and MPCB for benzomorphans) were identified by systematic conformational anal. and docked into a 3D model of the k-receptor. The obtained complexes, refined by energy-minimization and mol. dynamics, were evaluated for their consistency with structure-activity relationships and site-directed mutagenesis data. The following interactions are hypothesized to govern the ligand-receptor recognition process: (i) a salt bridge between the Asp138 carboxylate and the protonated nitrogen of the bound agonist; (ii) a hydrogen bond donated by the Tyr312 hydroxyl to the carbonyl oxygen of arylacetamides and MPCB; (iii) hydrophobic interactions established by the dichlorophenyl moiety of arylacetamides and the pendant Ph ring of MPCB with the surrounding side chains of Tyr312, Leu224, Leu295, and Ala298; (iv) a  $\pi$ -stacking contact between the Tvr312 side chain and the Ph ring of arylacetamides; (v) a hydrogen bond linking the His291 imidazole ring to the phenolic hydroxy group featured by typical benzomorphans and the arylacetamides 4 and 6.

ACCESSION NUMBER: 2000:316268 CAPLUS

DOCUMENT NUMBER: 133:99072

TITLE: Modeling of  $\kappa$ -opioid receptor/agonists

interactions using pharmacophore-based and docking

simulations

Lavecchia, Antonio; Greco, Giovanni; Novellino,

AUTHOR(S):

Ettore; Vittorio, Franco; Ronsisvalle, Giuseppe CORPORATE SOURCE:

Dipartimento di Chimica Farmaceutica e Tossicologica, Universita di Napoli Federico II, Naples, I-80131,

Italy

SOURCE: Journal of Medicinal Chemistry (2000).

43(11), 2124-2134

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

199999-64-9P

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);

PREP (Preparation); PROC (Process); USES (Uses) (modeling of  $\kappa$ -opioid receptor/agonists interactions using

pharmacophore-based and docking simulations)

RN 199999-64-9 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester, (1R,2S) - (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

- THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- 68 L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
- AB Using cyclodextrin capillary zone electrophoresis (CD-CZE), baseline separation of synthetic potential analgesic drug diastereoisomer candidates 6,11-dimethyl-1,2,3,4,5,6-hexahydro-3-[(2'-methoxycarbonyl-2'phenylcyclopropyl)methyl]-2,6-methano-3-benzazocin-8-ol (MPCB) and 6,11-dimethyl-1,2,3,4,5,6-hexahydro-3-{[2'-methoxycarbonyl-2'(4-chloro phenyl)cyclopropyl]methyl}-2,6-methano-3-benzazocin-8-ol (CCB) was achieved. Among the cyclodextrins tested (hydroxypropyl-, carboxymethyland sulfobutyl- $\beta$ -cyclodextrin (HP- $\beta$ -CD, CM- $\beta$ -CD and SBE-B-CD) SBE-B-CD was found to be the most effective

complexing agent, allowing good optical isomer separation Resolution was also influenced by the CD concentration, pH of the buffer and presence of organic modifier in the background electrolyte. The optimum exptl. conditions for the separation of studied analgesic drugs were found using 25 mM borate buffer at pH 9 containing 40 mM of SBE-β-CD and 20% volume/volume of methanol. Using the above-mentioned background electrolyte, it was also possible to sep., in the same run, the enantiomers of normetazocine (NMZ) as well as the optical isomers of (±)-cis-2-chloromethy1-1-Ph

cyclopropancarboxylic acid Me ester (PCE) or

(±)-cis-2-chloromethyl-1-(4-chlorophenyl)cyclopropancarboxylic acid Me ester (CPCE) reagents used in the synthesis of the studied analgesic drugs.

ACCESSION NUMBER: 1999:623074 CAPLUS DOCUMENT NUMBER: 131:342123

TITLE: Optical isomer separation of potential analgesic drug

candidates by using capillary electrophoresis Ferrara, Giuseppina; Santagati, Natale Alfredo; AUTHOR (S):

Aturki, Zeineb; Fanali, Salvatore

CORPORATE SOURCE: Istituto di Cromatografia del C.N.R., Rome, 00016,

Italv

Electrophoresis (1999), 20(12), 2432-2437 SOURCE:

CODEN: ELCTDN; ISSN: 0173-0835

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal LANGUAGE: English

249934-72-3 249934-73-4

RL: ANT (Analyte); ANST (Analytical study)

(analgesic drug candidates optical isomer separation by capillary

electrophoresis using β-cyclodextrin)

249934-72-3 CAPLUS RN

CM Cyclopropanecarboxylic acid, 1-phenyl-2-[(1,4,5,6-tetrahydro-8-hydroxy-2,6,11-trimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester (CA INDEX NAME)

249934-73-4 CAPLUS RN

Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-2-[(1,4,5,6-tetrahydro-8hydroxv-2,6,11-trimethyl-2,6-methano-3-benzazocin-3(2H)-v1)methyl]-, methyl ester (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

20 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN L4

AB The synthesis and the in vitro receptor affinity for  $\sigma 1$  and opioid receptors of the two diastereoisomers of (+)-cis-MPCB namely, (+)-cis-(1'S,2'R)-6,11-Dimethyl-1,2,3,4,5,6-hexahydro-3-[[2'-(methoxycarbonyl)-2'-phenylcyclopropyl]methyl]-2,6-methano-3-benzazocin-8ol, (1'S,2'R)6a and (+)-cis-(1'R,2'S)-6,11-Dimethyl-1,2,3,4,5,6-hexahydro-3-[[2'-(methoxycarbony1)-2'-phenylcyclopropy1]methy1]-2,6-methano-3benzazocin-8-ol, (1'R,2'S)6a are reported. Affinities of (1'S,2'R)6a and (1'R,2'S)6a were compared with those of the (-)-cis-diastereoisomers of MPCB(1), and of its p-C1 Ph derivative CCB(2). The (+)-cis-N-normetazocine derivs. showed higher affinity for the  $\sigma l$  sites, labeled with [3H]-(+)-pentazocine than the corresponding (-)-cis- analogs. In particular, compound (1°5,2°R)6a showed a Ki = 66.7 nM for  $\sigma l$  receptor, associated with a good selectivity for  $\sigma l$  with respect to  $\kappa$ ,  $\mu$ ,  $\delta$  opioid receptors subtypes (Ki = > 1,000 nM). Anal. of the data seem to support the hypothesis that the

(+)-cis-N-normetazocine nucleus possess a specific enantioselectivity for ol sites, when supporting bulkier N-substituents functionalized with

a carboxy ester group.

ACCESSION NUMBER: 1997:698529 CAPLUS

DOCUMENT NUMBER: 128:43727

ORIGINAL REFERENCE NO.: 128:8431a,8434a

TITLE: Synthesis of (+)-(1'R,2'S) and

(1'S,2'R)-6,11-dimethyl-1,2,3,4,5,6-hexahydro-3-[[2'-(alkoxycarbonyl)-2'-phenylcyclopropyl]methyl]-2,6-

methano-3-benzazocin-8-ol. Comparison of the affinities for σl and opioid receptors with in the diastereoisomeric MPCB and CCB

AUTHOR(S): Ronsisvalle, Giuseppe; Prezzavento, Orazio;

Pasquinucci, Lorella; Pappalardo, Maria S.; Marrazzo,

Agostino; Vittorio, Franco; Carboni, Lucia;

Spampinato, Santi

CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di

Catania, Catania, 95125, Italy Farmaco (1997), 52(6-7), 471-476 CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Societa Chimica Italiana

DOCUMENT TYPE: Journal LANGUAGE: English

IT 199999-64-9P 199999-67-2P 199999-69-4P

199999-71-8P 199999-73-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Proparation)

(preparation and opioid receptor binding by (+)-cis-MPCB diastereomers)

RN 199999-64-9 CAPLUS

SOURCE:

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(28,68,118)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester, (1R,28)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 199999-67-2 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(28,68,118)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-y1]methyl]-, methyl ester, (18,2R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

- RN 199999-69-4 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

- RN 199999-71-8 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

- RN 199999-73-0 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-(2-chlorophenyl)-2-[[(2S,6S,11S)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester (CA INDEX NAME)

REFERENCE COUNT:

AUTHOR(S):

SOURCE:

PUBLISHER:

24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 10 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN AB In previous studies, MPCB and CCB were proposed as possible peptidomimetics of the N-terminal peptide fragment of  $\kappa$ -selective endogenous ligands, such as dynorphin A. With the aim of supporting this hypothesis and assessing the contribution given by the C-terminal residue in receptor interaction, the authors synthesized hybrid ligands linking selected peptide fragments and evaluated their binding affinity of both native and cloned  $\kappa$ -opioid receptors expressed in CHO-K1 cells, using [3H]U69,593 as labeled ligand. All the compds. showed an affinity for  $\kappa$  receptors significantly higher than that of MPCB and, in particular, MPCB-RRI bound to the cloned k receptor with a Ki value in the low nanomolar range. These results seem to confirm the role of κ pharmacophore played by MPCB and CCB, which are able to activate selectively  $\kappa$  receptors and are suitable supports for basic amino

acid residues, critical for the recognition of accessory receptor sites.

ACCESSION NUMBER: 1997:348655 CAPLUS DOCUMENT NUMBER: 127:45095

ORIGINAL REFERENCE NO.: 127:8455a,8458a

TITLE:

Peptidomimetics of the k-opioid receptor. A hybrid MPCB/peptide ligand (MPCB-RRI) binds κ

cloned receptor with nanomolar affinity

Ronsisvalle, G.; Pappalardo, M. S.; Carboni, L.;

Vittorio, F.; Pasquinucci, L.; Marrazzo, A.;

Cacciaquerra, S.; Spampinato, S.

CORPORATE SOURCE: Institute of Pharmaceutical Chemistry, University of Catania, Catania, 95125, Italy

Analgesia (Elmsford, New York) (1996),

2(5/6), 283-286

CODEN: AALGEB; ISSN: 1071-569X

Cognizant Communication Corp.

DOCUMENT TYPE: Journal

LANGUAGE: English

149343-51-1 154711-57-6 191024-90-5 191024-92-7 191024-94-9 191024-96-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(peptidomimetics hybrids of MPCB/peptide type binds κ-opioid

receptor with nanomolar affinity)

RN 149343-51-1 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1]methy1]-, methyl ester, (1R,2S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

- RN 154711-57-6 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,1]-dimethyl-2,6-methano-3-benzacocin-3(2H)-yl)methyl]-, methyl ester, [2R-[2u,3(1R\*,25\*),6u,11R\*]]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

- RN 191024-90-5 CAPLUS
- CN L-Isoleucine, N2-[[(IR,2S)-1-phenyl-2-[[(2R,6R,1IR)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]cyclopropyl]carbonyl]-L-arginyl-L-arginyl-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

- RN 191024-92-7 CAPLUS
- CN L-Isoleucine, N-[[(1R,2s)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8hydroxy-6,1l-dimethyl-2,6-methano-3-benzazocin-3(2H)yl]methyl]cyclopropyl]carbonyl]glycyl-L-arginyl-L-arginyl-, methyl ester

(CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 191024-94-9 CAPLUS

CN L-Isoleucine, N-[[(1R,2S)-1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]-L-leucyl-L-arginyl-L-arginyl-, methyl ester (9CI) (CA INDEX NAME)

PAGE 2-A

RN 191024-96-1 CAPLUS

CN

L-Isoleucine, N-[[(1R,2S)-1-(4-chlorophenyl)-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]cyclopropyl]carbonyl]-L-leucyl-L-arginyl-L-arginyl-, methyl ester (9CI) (CA INDEX NAME)

19

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN AB CCB, 6,11-dimethyl-1,2,3,4,5,6-hexahydro-3-{{2 - methoxycarbonyl-2'-(4-chlorophenyl)cyclopropyl]methyl)-2,6-methano-3-benzazocin-8-ol, displays specificity and very high affinity for κ opioid receptor types (Ki = 0.41 mM). In contrast to other κ opioid agonists, CCB is also selective with respect to ol sites (Ki = 1,050 nM). CCB displays antinociceptive and sedative effects in the mouse comparable to those of USO, 488H and morphine. Naltrexone fully antagonizes these effects. The sedative effects of CCB are blocked in mice pretreated with naltrexone or nor-BNI. CCB and USO, 488H produce a superimposable diuresis in rats. Naltrexone and nor-BNI, both are effective in antagonizing the effect. CCB does not produce any stereotyped behavior or ataxia in the behavioral assay in doses up to 40 mg/kg, s.c. These findings suggest that CCB might be a useful tool to investigate the physiol. role of κ opioid

receptors.
ACCESSION NUMBER: 1995:807823 CAPLUS
DOCUMENT NUMBER: 123:247166

ORIGINAL REFERENCE NO.: 123:43915a,43918a

TITLE: CCB, a novel specific  $\kappa$  opioid agonist, which discriminates between opioid and  $\sigma l$  recognition

sites

AUTHOR(S): Ronsisvalle, G.; Prezzavento, O.; Pasquinucci, L.; Marrazzo, A.; Vittorio, F.; Gomez-Vidal, J. A.;

Carboni, L.; Spampinato, S.

CORPORATE SOURCE: Institute Pharmaceutical Chemistry, University

Catania, Catania, Italy

SOURCE: Life Sciences (1995), 57(16), 1487-95 CODEN: LIFSAK; ISSN: 0024-3205

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

IT 154711-57-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(benzomorphan derivative as  $\kappa$  opioid agonist discriminating between opioid and  $\sigma l$  recognition sites)

RN 154711-57-6 CAPLUS

CN Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2R-[2a,3(1R\*,2S\*),6a,11R\*]]- [9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 149343-51-1 154711-58-7 155566-31-7 168102-68-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

- (opioid receptor binding affinity of benzomorphan derivs.)
  RN 149343-51-1 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, methyl ester, (1R,2S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

- RN 154711-58-7 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-(3,4-dichlorophenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2R-[2a,3(1R\*,2S\*),6a,11R\*]]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 155566-31-7 CAPLUS

CN Cyclopropanecarboxylic acid, 1-(2-methoxyphenyl)-2-[(1,4,5,6-tetrahydro-8hydroxy-6,11-dimethy1-2,6-methano-3-benzazocin-3(2H)-y1)methy1]-, methy1 ester, [2a,3(1R\*,2S\*),6a,11R\*]- (9CI) (CA INDEX NAME)

Relative stereochemistry. Currently available stereo shown.

168102-68-9 CAPLUS RN

CN Cyclopropanecarboxylic acid, 1-(3-chlorophenyl)-2-((1,4,5,6-tetrahydro-8hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-vl)methyl-, methyl ester, [2S-[2a,3(15\*,2S\*),6a,11R\*]]- (9CI) (CA INDEX NAME)

ANSWER 12 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

AB CCB, a chloro substituted derivative of MPCB, a recently synthesized kappa specific opioid agonist, has been shown to maintain specificity for the kappa receptor associated with a binding affinity 2.6 times higher than that of U50488H. Structure-activity relationships are discussed for (1'R, 2'S)/(1'S, 2'R)-6-11dimethyl-1, 2, 3, 4, 5, 6-hexahydro-3[[2'-(methoxycarbonyl)-2(4''-chlorophenylcyclopropyl)]methyl]2,6-methano-3-

benzazocin-8-ol (MPCB) and U50488H analogs.

ACCESSION NUMBER: 1994:400235 CAPLUS

DOCUMENT NUMBER: 121:235 ORIGINAL REFERENCE NO.: 121:39a,42a

TITLE: CCB: a novel analog of MPCB with high binding affinity

and specific kappa opioid receptor agonist AUTHOR(S): Ronsisvalle, G.; Prezzavento, O.; Pasquinucci, L.;

Carboni, L.; Pistacchio, E.; Spampinato, S. CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Catania, Catania, 95125,

Italv

SOURCE:

Regulatory Peptides (1994), (Suppl. 1), S31-S32

CODEN: REPPDY; ISSN: 0167-0115 DOCUMENT TYPE: Journal

LANGUAGE: English 154711-57-6 154711-58-7 154801-95-3 155566-19-1, PMCB 155566-31-7, OMCB RL: BIOL (Biological study)

 $(\kappa\text{-opioid receptor binding and analgesic activity of, structure in relation to)$ 

RN 154711-57-6 CAPLUS

CN Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(ZH)-yl)methyl]-, methyl ester, [ZR-[2a,3(1R\*,2S\*),6a,31R\*]]-[9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 154711-58-7 CAPLUS

CN Cyclopropanecarboxylic acid, 1-(3,4-dichlorophenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2R-[2a,3(18\*,28\*),6a,118\*]]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 154801-95-3 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2a,3(1R\*,28\*),6a,11R\*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN

CN Cyclopropanecarboxylic acid, 1-(4-methoxyphenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2α,3(1R\*,2S\*),6α,11R\*]- (9C1) (CA INDEX NAME)

Currently available stereo shown.

- RN 155566-31-7 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-(2-methoxyphenyl)-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2a,3(1R\*,2S\*),6a,11R\*)- (9C1) (CA INDEX NAME)

Relative stereochemistry. Currently available stereo shown.

L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN GI

AB A series of Ph carboxy esters I (R = Me, Et, Pr, Bu) derived from normetazocine was synthesized and evaluated for its selectivity at  $\mu,$   $\kappa,$  and  $\delta$  opioid receptors. Compound I (R = Me), although 43 times less potent than the reference compound U50488, was specific for  $\kappa$  receptors, having no detectable affinity for either  $\mu$  or  $\delta$ 

receptors. Greater binding affinity was seen with the diastereoisomer having the 1'R,2'S stereochem. in the cyclopropyl ring of the nitrogen substituent, which was only 12 times less active than U50488.

Antinociceptive activity in the mouse tail flick was only slightly lower than that of U50488 (BD50 = 7.66 vs 4.52 mg/kg). Naloxone fully prevented antinociception induced by (1'R,2'S)-I (R = Me) at the doses of 2.0 mg/kg. Compound (1'R,2'S)-I (R = Me) is one of the most  $\kappa$ -selective

non-peptide compds. reported to date. The implications of these results

in terms of requirements for κ ligands are discussed. ACCESSION NUMBER: 1993:517591 CAPLUS

ACCESSION NUMBER: 1993:517591 DOCUMENT NUMBER: 119:117591

ORIGINAL REFERENCE NO.: 119:21171a,21174a

TITLE: Non-peptide ligands for opioid receptors. Design of  $\kappa$ -specific agonists

AUTHOR(S): Ronsisvalle, G.; Pasquinucci, L.; Pappalardo, M. S.; Vittorio, F.; Fronza, G.; Romagnoli, C.; Pistacchio,

E.; Spampinato, S.; Ferri, S.
CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Catania, Catania,

95125, Italy
SOURCE: Journal of Medicinal Chemistry (1993),

Journal of Medicinal Chemistry (1993), 36(13), 1860-5

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

IT 149343-48-6P 149343-49-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and esterification of)

RN 149343-48-6 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1S,2R)-(CA INDEX NAME)

#### Absolute stereochemistry.

RN 149343-49-7 CAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-y1]methyl]-, (1R,2S)-(CA INDEX NAME)

- II 149270-46-2P 149270-47-3P 149343-50-0P
   149343-51-1P 154801-95-3P
  RL: SPN (Synthetic preparation); PREP (Preparation)
   (preparation and opioid receptor binding affinity of)
- RN 149270-46-2 CAPLUS
  CN Cyclopropanecarboxylic acid, 1-phenyl-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, propyl ester, [2α,3(1R\*,28\*),6α,11R\*]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} & \\ \text{Ph} & \text{CH}_2 - \text{N} & \\ \text{n-PrO-C} & \\ \text{O} & \\ \end{array}$$

- RN 149270-47-3 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl)-, butyl ester, [2a,3(18\*,28\*),6a,118\*)- (9CI) (CA INDEX NAME)

- RN 149343-50-0 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]-, methyl ester, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

- RN 149343-51-1 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2R)-yl]methyl]-, methyl ester, (1R,2S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

- RN 154801-95-3 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, methyl ester, [2a,3(1R\*,28\*),6a,11R\*]- (SCI) (CA INDEX NAME)

Relative stereochemistry.

- IT 149270-45-1P
  - RL: SPN (Synthetic preparation); PREP (Preparation)
    (preparation, ester hydrolysis, and opioid receptor binding affinity of)
- RN 149270-45-1 CAPLUS
- CN Cyclopropanecarboxylic acid, l-phenyl-2-[(1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl)methyl]-, ethyl ester, [2\alpha,3(1\R^\*,2\S^\*),6\alpha,1\R^\*]- (9\C1) (CA INDEX NAME)

- IT 149270-52-0P
  - RL: SPN (Synthetic preparation); PREP (Preparation) (preparation, resolution, and opioid receptor binding affinity of)
- RN 149270-52-0 CAPLUS
- CN Cyclopropanecarboxylic acid, 1-phenyl-2-[[(2R,6R,11R)-1,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-3(2H)-yl]methyl]-, (1R,2S)-rel- (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN GI

AB The title compds. I (R1-6 = H, C1-4 alkyl, halo; R7, R8 = H, C1-4 alkyl; or NR788 = heterocyclic ring optionally containing addnl. hetero atom; R9, R10 = H, halo, alkyl, alkenyl, aryl, cycloalkyl, alkoxy, aryloxy, trihydrocarbylsilyl, etc.), useful as fungicides, are prepared (174 compds.). Thus, for example, 0.53 g II (R1-6 = R9 = H, X = C1, R10 = p-Me3C) and 1 mL piperidine were heated at 80° for 10 h in pyridine to give 0.3 g I (R1-6 = R9 = H, NR788 = piperidino, R10 = p-Me3C) (III), which at 0.05% was 100% effective in controlling Puccinia recondita on wheat. Formulations are also described, e.g. a seed dressing containing II 50, mineral oil 2, and china clay 48%.

ACCESSION NUMBER: 1986:626008 CAPLUS
DOCUMENT NUMBER: 105:226008
ORIGINAL REFERENCE NO.: 105:36479a,36482a

TITLE: Phenylcyclopropylalkylamines

INVENTOR(S): Worthington, Paul Anthony; Sugavanam, Balasubramanyan

PATENT ASSIGNEE(S): SOURCE:

Imperial Chemical Industries PLC, UK Eur. Pat. Appl., 101 pp.

CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND		APPLICATION NO.							
	A1	19860730								
R: AT, BE, CH,			, NL, SE							
GB 2170197	A	19860730			19851212 <					
GB 2170197	В	19880824								
AT 63113		19910515	AT 1985-309054		19851212 <					
AU 8551389	A	19860724	AU 1985-51389		19851218 <					
ZA 8600047	A	19860827	ZA 1986-47		19860103 <					
DK 8600125	A	19860718	DK 1986-125		19860110 <					
BR 8600138	A	19860923	BR 1986-138		19860115 <					
HU 39956	A2	19861128			19860115 <					
CN 86100254	A	19861008	CN 1986-100254		19860116 <					
JP 61167648	A	19860729	JP 1986-6588		19860117 <					
ES 550992	A5	19881116	ES 1986-550992		19860117 <					
PRIORITY APPLN. INFO.:			GB 1985-1169	A	19850117					
			GB 1985-12400	A	19850516					
			GB 1985-16804	A	19850703					
			GB 1985-20592	Α	19850816					
			GB 1985-29482	A	19851129					
			EP 1985-309054	A	19851212					
OTHER SOURCE(S):				3						
IT 105358-42-7P 105358-43-8P 105392-87-8P										
105392-91-4P 105393	-05-3P	105393-59-7P								
105455-08-1P										
RL: AGR (Agricultur	al use)	; BAC (Biolo	gical activity or es	fec	tor, except					
adverse); BSU (Biol	ogical	study, uncla	ssified); SPN (Synth	neti	.c					
preparation); BIOL	(Biolog	ical study);	PREP (Preparation);	US	ES (Uses)					
(preparation of,	as fun	gicide)								
RN 105358-42-7 CAPLUS										

Relative stereochemistry.

CN

105358-43-8 CAPLUS

Piperidine, 1-[[2-[4-(1,1-dimethylethyl)phenyl]-2methylcyclopropyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Piperidine, 1-[[2-[4-(1,1-dimethylethyl)phenyl]-2-

methylcyclopropyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 105392-87-8 CAPLUS

CN Piperidine, 1-[[2-[4-(1,1-dimethylethyl)phenyl]-2,3-dimethylcyclopropyl]methyl]-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 105392-91-4 CAPLUS

CN Piperidine, 1-[[2-methyl-2-[4-(1-methylethyl)phenyl]cyclopropyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 105393-05-3 CAPLUS CN Piperidine, 1-112-m

Piperidine, 1-[[2-methyl-2-[4-(trimethylsilyl)phenyl]cyclopropyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN

CN Piperidine, 1-[[2-methyl-2-[4-(1-methylethyl)phenyl]cyclopropyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 105455-08-1 CAPLUS

CN Piperidine, 1-[[2-[4-(1,1-dimethylethyl)phenyl]-2,3-dimethyloyclopropyl]methyl]-, (1\alpha,2\beta,3\alpha)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN GI

AB Title esters I (R = H, halo, C1-C4 alkyl or alkoxy, NO2, NH2, SO2NH2, OH; n = 1-3; Rn may be benzo; R1 = C1-C5 alkyl or alkenyl, aryl, PhCH2; X = NN2R3; R2, R3 = H, C1-C5 alkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, carboxyalkyl, dialkylaminoalkyl, aryl, arylalkyl, cycloalkyl; R2R3M = 5- or 6-membered heterocyclyl) were prepared by cleaving lactones II with R1OH and a thionyl halide, followed by amination of I (X = halo). Thus, SOC12 and them II (Rn = H) were added, with stirring, to EtOH at -10° and the mixture kept 12 h at room temperature to give 95% I (Rn = H, R1 = Et, X = C1), which were aminated with various amines in refluxing PhMe.

ACCESSION NUMBER: 1983:178811 CAPLUS
DOCUMENT NUMBER: 98:178811
ORIGINAL REFERENCE NO.: 98:27163a,27166a

TITLE: (Z)-1-Aryl-2-(aminomethyl)cyclopropanecarboxylates and their use as medicines in the treatment of various

disorders

INVENTOR(S): Cousse, Henri; Mouzin, Gilbert; Bonnaud, Bernard;

Charveron, Marie; Fauran, Francois Fabre, Pierre, S. A., Fr.

SOURCE: Eur. Pat. Appl., 61 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

P.F	ATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
E	9 68998	A1	19830105	EP 1982-401128	19820621 <			
E	68998	B1	19850828					
	R: AT, BE, CH,	DE, GB	, IT, LI, LU	J, NL, SE				
FF	R 2508033	A1	19821224	FR 1981-12311	19810623 <			
FF	R 2508033	В1	19840629					
A7	r 15181	T	19850915	AT 1982-401128	19820621 <			
CF	A 1199929	A1	19860128	CA 1982-405587	19820621 <			
Αt	J 8285087	A	19830106	AU 1982-85087	19820622 <			
Αt	J 553924	B2	19860731					
JE	9 58000945	A	19830106	JP 1982-107520	19820622 <			
ZI	A 8204403	A	19830427	ZA 1982-4403	19820622 <			
US	6 4507318	A	19850326	US 1982-390811	19820622 <			
US	4567288	A	19860128	US 1984-656443	19841001 <			
PRIORIT	TY APPLN. INFO.:			FR 1981-12311 A	19810623			
				EP 1982-401128 A	19820621			
				US 1982-390811 A	1 19820622			

OTHER SOURCE(S):

CASREACT 98:178811; MARPAT 98:178811 85467-42-1P 85467-45-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

85467-42-1 CAPLUS RN

Cyclopropanecarboxylic acid, 1-phenyl-2-[(4-phenyl-1-piperidinyl)methyl]-, CN ethyl ester, hydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

85467-45-4 CAPLUS RN

Cyclopropanecarboxylic acid, 1-phenyl-2-(1-piperidinylmethyl)-, ethyl ester, hydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

HC1

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DICTIONARY FILE UPDATES: 18 MAY 2009 HIGHEST RN 1147182-17-9

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http://www.cas.org/support/stngen/stndoc/properties.html

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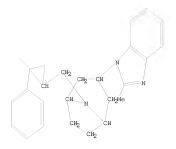


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chain nodes :
18 19 29
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 20 21 22 23 24 25
26 27 28
chain bonds :
5-17 8-19 16-18 19-20 21-25 21-29
ring bonds :
1-2 1-7 2-3 3-4 3-8 4-5 5-6 6-7 7-8 9-10 9-14 9-15 10-11 10-17 11-12 12-13 13-14 15-16 16-17 20-21 20-28 21-28 22-23 22-27 23-24 24-25 25-26
26-27
exact/norm bonds :
1-2 1-7 2-3 3-4 3-8 4-5 5-6 5-17 6-7 7-8 9-15 10-17 15-16 16-17 20-21
20-28 21-28
exact bonds :
8-19 16-18 19-20 21-25 21-29
normalized bonds :
9-10 9-14 10-11 11-12 12-13 13-14 22-23 22-27 23-24 24-25 25-26 26-27
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Match level: 1:1Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:CLASS

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=> d 15 L5 HAS NO ANSWERS L5 STR



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=> s 15 sss full FULL SEARCH INITIATED 11:07:52 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 119 TO ITERATE

100.0% PROCESSED 119 ITERATIONS SEARCH TIME: 00.00.01 8 ANSWERS

L6 8 SEA SSS FUL L5

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FILE COVERS 1907 - 20 May 2009 VOL 150 ISS 21 FILE LAST UPDATED: 19 May 2009 (20090519/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate

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L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN GI

AB  $\,$  Title compds. I [R1 = (un)substituted saturated, partially saturated, or aromatic 4--7

II

monocyclic or 8-10 membered bicyclic ring having one ring nitrogen and 0-4 addnl. heteroatoms selected from O, P, S or N, optionally attached through alkylene chain, substituted-amine, -amide, etc.; R2 = OH, halogen (un)substituted-aikyl, -alkoxy, -aryl, -heteroaryl, -cycloalkyl, etc., optionally two adjacent R2s taken together form a fused, saturated, partially saturated or aromatic 5-6 membered ring having 0-3 heteroatoms selected from O, P, S, or N, or two geminal R2s optionally taken together from a spiro, saturated, partially saturated or aromatic 5-6 membered ring having 0-3 heteroatoms

selected from O, P, S or N, said fused or spiro ring being optionally substituted; R10 = H, (un)substituted-alkyl, -alkenyl, -alkynyl, -cycloalkyl, -heterocyclyl, -heteroaryl, or aryl; X = (un)substituted-alkylene chain which optionally may have 0-3 heteroatoms selected from O, P, S or N;  $\pi$  = saturated, partially saturated, or aromatic 3-7 monocyclic or 8-10 membered bicyclic ring having one ring nitrogen and 0-4 addnl. heteroatoms selected from O, P, S or N;  $\pi$  = 0-3,  $\pi$  = 0-5] and

their pharmaceutically acceptable salts are prepared and disclosed as CCR5 antagonists. Thus, II was prepared by reaction of

N-{[(1S,2R)-2-formyl-1-phenylcyclopropyl]methyl}-N-

methylbenzenesulfonamide (preparation given) and

4-(3-benzyl-1,2,4-oxadiazol-5-yl)piperidine. Addnl. preparative examples

utilizing combinatorial methods of synthesis are given. I have pIC50 values of ≥5 in assays for CCR5 antagonism. As CCR5 antagonists, I are useful for the treatment of viral infections (particularly HIV

infection).

ACCESSION NUMBER: 2004:534198 CAPLUS

DOCUMENT NUMBER: 141:88871

TITLE: Preparation of aminoalkylaryl cyclopropyl compounds as

CCR5 antagonists

INVENTOR(S): Peckham, Jennifer Poole; Aquino, Christopher Joseph;

Kazmierski, Wieslaw Mieczyslaw PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 138 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Pat.ent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

							****** D			3 DD1 T03 MT01/ NO						D			
	PATENT NO.																		
	WO 2004055010									WO 2003-US39619									
	WO 2004055010													20031212					
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									DK,										
									IL,										
									MA,										
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		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	
			ΒY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
			ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
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	AU 2003296993																		
	EP 1569934											20031212							
	EΡ	1569																	
		R:							FR,									PT,	
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	JP	2006	5149	50		T		20060518 JP 2004-560831					31		20031212				
	AT 384724					T 20080215			AT 2003-813416 ES 2003-813416					20031212					
						A1	A1 20060309												
PRIOF	RITY	( APP	LN.	INFO	. :						US 2002-433626P								
	WO 2003-US3961										619	1	71 2	0031	212				

OTHER SOURCE(S):

MARPAT 141:88871 714976-75-7P 714976-77-9P

RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); USES (Uses)

(preparation of aminoalkylaryl cyclopropane derivs. as CCR5 antagonists) 714976-75-7 CAPLUS

2-Furancarboxamide, N-[[(1S,2R)-1-(3-chloropheny1)-2-[[(3-exo)-3-(2-methy1-1H-benzimidazol-1-yl)-8-azabicyclo[3.2.1]oct-8-

yl]methyl]cyclopropyl]methyl]-N-methyl- (CA INDEX NAME)

- RN 714976-77-9 CAPLUS
- CN Cyclopentanecarboxamide, N-[[(1S,2R)-1-(3-chlorophenyl)-2-[[(3-exo)-3-(2-methyl-1H-benzimidazol-1-yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]cyclopropyl]methyl]-N-methyl (CA INDEX NAME)

## Absolute stereochemistry.

- IT 714976-73-5P 714976-86-0P 714976-87-1P 714976-88-2P
  - RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
- (preparation of aminoalkylaryl cyclopropane derivs. as CCR5 antagonists)
  RN 714976-73-5 CAPLUS
- CN Benzenesulfonamide, N-[[(1S,2R)-1-(3-chlorophenyl)-2-[[(3-exo)-3-(2-methyl-1H-benzimidazol-1-yl)-8-azabicyclo[3,2.1]oct-8-yl]methyl]cylopropyl]methyl]-N-methyl-1-(CA INDEX NAME)

- RN 714976-86-0 CAPLUS
- CN 2-Thiophenesulfonamide, N-[(1S, 2R)-1-(3-chloropheny1)-2-[(3-exo)-3-(2-chloropheny1)]

methyl-1H-benzimidazol-1-yl)-8-azabicyclo[3.2.1]oct-8yl]methyl]cyclopropyl]methyl]-N-methyl-5-(2-pyridinyl)- (CA INDEX NAME)

#### Absolute stereochemistry.

RN 714976-87-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[[(15,2R)-1-(3-chlorophenyl)-2-[[(3-exo)-3-(2-methyl-1H-benzimidazol-1-yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]cyclopropyl]methyl]-5-(3-isoxazolyl)-N-methyl- (CA INDEX NAME)

### Absolute stereochemistry.

RN 714976-88-2 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[([(1S,2R)-1-(3-chlorophenyl)-2-[[(3-exo)-3-(2-methyl-1H-benzimidazol-1-yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]cyclopropyl]methyl]-N,1-dimethyl- (CA INDEX NAME)

### Absolute stereochemistry.

IT 714977-69-2P 714977-70-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of aminoalkylaryl cyclopropane derivs. as CCR5 antagonists)

- RN 714977-69-2 CAPLUS
- CN Cyclopropanecarboxylic acid, 2-[[(3-endo)-3-(2-methyl-1H-benzimidazol-1-yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]-1-phenyl-, ethyl ester, (1S,2R)-(CA INDEX NAME)

### Absolute stereochemistry.

- RN 714977-70-5 CAPLUS
- CN Cyclopropanecarboxylic acid, 2-[[(3-endo)-3-(2-methyl-1H-benzimidazol-1yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]-1-phenyl-, (1S,2R)- (CA INDEX NAME)

### Absolute stereochemistry.

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF LOGOFF? (Y)/N/HOLD:v

STN INTERNATIONAL LOGOFF AT 11:09:25 ON 20 MAY 2009